



## P47 Series Steam Pressure Limit Control Catalog Page

LIT-1927205

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### Description

The P47 Controls are available with single-pole, single-throw (SPST), double-pole, single-throw (DPST), or four-wire, two-circuit contacts for line voltage or low voltage. The pressure connector is 1/4 in. external NPT (0 to 15 psi only) or 1/4 in. internal NPT (for all other ranges).

Refer to the *P47 Series Steam Pressure Controls Product Bulletin (LIT-125450)* for important product application information.

### Features

- long-life contact structure with high contact force
- easy-to-adjust single sight set scales show both cut-in and cut-out settings

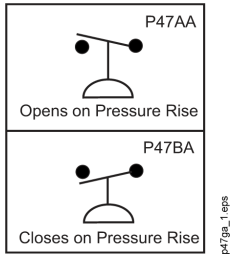
### Applications

P47 steam pressure controls are designed for high limit or operating control applications. A typical use is as a limit control on steam heating systems. Models that close on a pressure increase are used on steam unit heaters to avoid blower operation when steam pressure is below the point required for adequate heating. The P47 can be used with steam, water, air, or noncombustible gases that do not harm iron or copper.

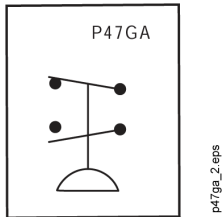


P47AA, P47AA, P47GA, P47AB, P47EA

**Figure 1: SPST**



**Figure 2: Four-Wire, Two-Circuit Action on Pressure Rise**



## Accessories

The Part No. **TBG16A-600** Siphon is supplied with all controls except models with 0 to 15 psi range.

## Repair Information

If the P47 Series Steam Pressure Limit Control fails to operate within its specifications, replace the unit. For a replacement control, contact the nearest Johnson Controls® representative.

## Selection Chart

**Table 1: Selection chart**

Product Code Number	Switch Action	Range psi (kPa)	Diff psi (kPa)		Max Over-pressure psig (kPa)
			Min.	Max.	
Contacts Open On Rise – Automatic Reset					
P47AA-1C	SPST	0 to 15 (0 to 103)	2 (14)	8 (55)	50 (345)
P47AA-4C		20 in. Hg to 50 (-68 to 345)	5 (34)	35 (241)	180 (1,241)
P47AA-13C		0 to 150 (0 to 1,034)	12 (83)	50 (345)	325 (2,241)
Contacts Close On Rise – Automatic Reset					
P47BA-1C	SPST	0 to 15 (0 to 103)	2 (14)	8 (55)	50 (345)
P47BA-6C		0 to 150 (0 to 1,034)	12 (83)	50 (345)	325 (2,241)
Four-Wire, Two Circuit <sup>1</sup> – Automatic Reset					
P47GA-9C <sup>1</sup>	Main open high; Auxiliary open low	0 to 150 (0 to 1,034)	12 (83)	50 (345)	325 (2,241)
P47AB-3C	SPST	50 to 240 (345 to 1,655)	Manual reset		300 (2,069)
P47EA-1C	SPDT	50 to 240 (345 to 1,655)	10 (69) Fixed		300 (2,069)

<sup>1</sup> The main contacts (Line-M2) open on rise, as the auxiliary contacts (Line-M1) close.

## Technical Specifications

**Table 2: Electrical Ratings for P47AA, P47AB, and P47BA**

Motor Ratings VAC	120	208	240	277
AC Full Load A	16.0	9.2	8.0	-
AC Locked Rotor A	96.0	55.2	48.0	-
AC Non-Inductive A	16.0	16.0	16.0	16.0
Pilot Duty	125 VA, 120 to 600 VAC; 57.5 VA, 120 to 300 VDC			

**Table 3: Electrical Ratings for P47EA**

Motor Ratings VAC	120	208	240	277
AC Full Load A	16.0	9.2	8.0	-
AC Locked Rotor A	96.0	55.2	48.0	-
AC Non-Inductive A	16.0	10.0	10.0	10.0
Pilot Duty	125 VA, 120 to 227 VAC			

**Table 4: Electrical Ratings for P47GA**

Pole Number	Line-M2 (Main)				Line-M1 (Auxiliary)			
	120	208	240	277	120	208	240	277
AC Full Load A	16.0	9.2	8.0	-	6.0	3.3	3.0	-
AC Locked Rotor A	96.0	55.2	48.0	-	36.0	19.8	18.0	-
AC Non-Inductive A	16.0	9.2	8.0	7.2	6.0	6.0	6.0	6.0
Pilot Duty: Both Poles	125 VA, 120 to 600 VAC; 57.5 VA, 120 to 300 VDC							

## Product warranty

This product is covered by a limited warranty, details of which can be found at [www.johnsoncontrols.com/buildingswarranty](http://www.johnsoncontrols.com/buildingswarranty).

## Single point of contact

APAC	Europe	NA/SA
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## Contact information

Contact your local branch office:  
[www.johnsoncontrols.com/locations](http://www.johnsoncontrols.com/locations)

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